

Mathematics

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Time: 3 hrs.

Full Marks: 100

Pass Marks: 35 (For partial students only)

Attempt all questions.

Group 'A'

5 × 3 × 2 = 30

1. a. Find the truth value of the biconditional statement of p and q where p represents '2 is an even number' and q represents '4 is an even number'.
- b. If $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = 2x - 3$, find f^{-1}
- c. Test the even or odd nature and symmetricity of the function $y = 8x^2$
2. a. Express $\tan^{-1}x$ in terms of inverse of sin function.
- b. Prove by mathematical induction: $1 + 3 + 5 + \dots + (2n - 1) = n^2$
- c. Find the adjoint of the matrix $\begin{pmatrix} 2 & 5 \\ 3 & -7 \end{pmatrix}$
3. a. Using Cramer's rule, solve: $3x + 2y + 9 = 0$, $2x - 3y + 6 = 0$
- b. Express $\sqrt{3} + i$ in polar form.
- c. If one root of the equation $ax^2 + bx + c = 0$ be twice the other, show that $2b^2 = 9ac$
4. a. Find the equation of the straight line that has y -intercept '2' and is parallel to $4x - 8y + 3 = 0$
- b. Find the equation of the circle which passes through origin and makes equal intercepts on both axes.
- c. Evaluate: $\lim_{x \rightarrow 0} \frac{1 - \cos nx}{1 - \cos mx}$

Contd...

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Victor M. Corman



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Unveiling the Power of Verbal Art: An Psychological Sojourn through **Matric Mathematics Pquestion Papers Eng 2013 March December**

In a world inundated with screens and the cacophony of quick communication, the profound energy and emotional resonance of verbal art usually disappear in to obscurity, eclipsed by the regular barrage of sound and distractions. However, located within the lyrical pages of **Matric Mathematics Pquestion Papers Eng 2013 March December**, a captivating work of fictional elegance that pulses with organic thoughts, lies an unforgettable trip waiting to be embarked upon. Written by a virtuoso wordsmith, this magical opus books visitors on an emotional odyssey, delicately revealing the latent possible and profound impact embedded within the intricate web of language. Within the heart-wrenching expanse of this evocative examination, we shall embark upon an introspective exploration of the book is central subjects, dissect its interesting publishing type, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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